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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,367	09/14/2005	Nicolaas Lambert	NL 030267	6175
65913	7550	10/10/2008	EXAMINER	
NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131			DOAN, DUC T	
			ART UNIT	PAPER NUMBER
			2188	
			NOTIFICATION DATE	DELIVERY MODE
			10/10/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Office Action Summary

Application No.

10/549,367

Applicant(s)

LAMBERT ET AL.

Examiner

DUC T. DOAN

Art Unit

2188

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2007.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-13 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 14 September 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-8508)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Status of Claims

Claims 1-13 are in the application.

Claims 1-13 are rejected.

Specification Objections

The specification is objected to as follows,

A) The abstract of the disclosure is more than 150 words, See CFR 1.72 (b); In addition the abstract of the disclosure is objected to because it contains legal phrasology such as "said" and at line 17 it is not clear what "(r: quest profile)" means. Examiner points out that the abstract should be a concise technical statement of what is new in the art. This means that the abstract should stand alone in its ability to briefly state the new art being disclosed since referring to other part of the disclosure prevents a concise statement. Correction is required. See MPEP 608.01(b).

B) As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

(a) TITLE OF THE INVENTION.

(b) CROSS-REFERENCE TO RELATED APPLICATIONS.

(c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.

(d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
(e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A
COMPACT DISC (See 37 CFR 1.52(c)(5) and MPEP 608.05. Computer program
listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables
having more than 50 pages of text are permitted to be submitted on compact
discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).
"Microfiche Appendices" were accepted by the Office until March 1, 2001 .) (f)
BACKGROUND OF THE INVENTION.

(1) Field of the Invention.

(2) Description of Related Art including information disclosed under 37 CFR 1.97
and 1.98.

(g) BRIEF SUMMARY OF THE INVENTION.

(h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

(i) DETAILED DESCRIPTION OF THE INVENTION.

(j) CLAIM OR CLAIMS (commencing on a separate sheet).

(k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

(1) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence
Listing" is required on paper if the application discloses a nucleotide or amino
acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence
Listing" is not submitted as an electronic document on compact disc).

It has been noted that the Applicant's specification and originally filed does not contain the sections as outlines above.

Appropriate correction is requested.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by other's in this country or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b) by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 and 8-12 are rejected under 35 U.S.C. 102 (e) as being anticipated by Biessener et al (US 2004/0088513).

As in claim 1, Biessener discloses a memory device (10, 30, 50) (Fig 7 controller) comprising

- a) a memory (12, 32, 56) having a plurality of low-latency, rewritable, non-volatile memory cells forming at least one memory section (Fig 1 storage system 8, paragraph 44 memory volatile, non-volatile etc., the memory has several partitions, paragraph 52);
- b) a profile storage unit (20, 36, 60) connected with said memory and comprising access information allocated to at least one set of request information elements (hereinafter request profile) (Fig 2, partition table paragraph 56, and information related to a partition such as password etc.. paragraph 60), such that said access information indicates whether a request for access to said memory (12, 32, 56) (hereinafter access request), said access request having said request profile, is to be allowed or rejected (paragraphs 57-58, partition table information Table 1 indicates access permission for reject or permit an access request),
- c) an access control unit (22, 36, 60) communicating with said profile storage unit and said memory, and adapted to allow or reject an incoming access request in dependence on the access information allocated to the request profile of the access request (paragraph 60, controller 6 rejects and/or permit requests by using information of table 1).

As in claim 2, Biessener further discloses wherein said set of request information elements comprises at least one request information element indicating a type of request, an external memory client from which the request originates, a memory section the request is directed to, an access authorization, a password, a request protocol type, a time of request, an

interface receiving the request, the length of the request, time span lapsed since a last request, a security class, or a priority class (Fig 2, partition table paragraph 56, and information related to a partition such as password etc.. paragraph 60).

As in claim 3, Biessener further discloses comprising a plurality of interfaces (52, 54) for communication with external memory clients and/or for communication according to different memory uses, each interface being connected with said access control unit (22, 36, 60) and allocated to a set of request profiles (paragraphs 97, 100 allocating/maintaining set of information (i.e profiles) and different resources to a user, such as drives files, partitions etc... It's noted different drives require different interfaces for specific memory devices being used such as Flash, disk etc.. paragraph 94).

As in claim 4, Biessener further discloses wherein at least one of said interfaces is implemented in the form of hardware (Fig 7 and 9, paragraph 94 discloses storage devices of storage system 8 communicates with controller 6 using interface logic 18. It's further noted that the interface logic 18 represents circuitries to send and receive data over communicating medium 7).

As in claim 5, Biessener further discloses wherein at least one of said interfaces is implemented in the form of software (Fig 7 and 9, paragraph 94 discloses storage devices of storage system 8 communicates with controller 6 using interface logic 18. It's further noted that the interface logic 18 represents drives logic (i.e software and hardware), to send and receive data over communicating medium 7).

As in claim 8, Biessener further discloses comprising a supervisor interface adapted to create or change at least one request profile and/or access information allocated thereto, given

a predetermined condition (paragraph 15 an authorized user can have a given/limit access condition to access partitions).

As in claim 9, Biessener further discloses wherein said supervisor interface is adapted to admit or reject external requests for change of a request profile, depending on access information allocated to at least one predetermined change request profile (paragraph 18, filtering unauthorized commands requests using configuration information defined by user/administrator).

As in claim 10, Biessener further discloses wherein said profile storage unit (20, 36, 60) comprises a set of access flags, each access flag allocated to a respective request profile, and 20 wherein said access information is given by one of two possible states of an access flag (Table 1, partition states are flags that allow or reject requests for a partition).

As in claim 11, Biessener further discloses wherein said profile storage unit is integrated into said access control unit (36, 60) (paragraph 55).

As in claim 12, Biessener further discloses wherein said access control unit (22, 36, 60) is adapted to maintain a current copy of said profile storage unit (20, 36, 60) in a predetermined section of said memory (paragraphs 55-58, table 1, partition table information such as boot partition, is stored in a predetermined section of flash memory such that it can be loaded into the system).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6-7, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biessener et al (US 2004/0088513) in view Jameson (US 2004/0054864).

As in claim 6, Biessener does not expressly disclose the SRAM-type interface. However, Jameson discloses an SRAM-type interface (52) adapted to serve separate connections for address data input and user data exchange, respectively, between the memory device and at least one external memory client (Fig 1, a device capable of transferring to or from a memory NAND flash with SRAM-like interface, paragraph 25). It would have been obvious to one of ordinary skill in the art at the time of invention to include a device with interface conversion as suggested by Jameson in Biessener's system and thereby data can be transferred with an interface different than that of memory devices in an efficiently manner (paragraph 8).

As in claim 7, Biessener does not expressly disclose the claim's aspect of shared connection. However, Jameson discloses an I/O-type interface (54) adapted to serve a shared connection for address data input and user data exchange between the memory device (50) and at least one external memory client (Fig 1 120 NAND flash interface that shares address and data, paragraph 5). It would have been obvious to one of ordinary skill in the art at the time of invention to include a device with interface conversion as suggested by Jameson in Biessener's

system and thereby data can be transferred with an interface different than that of memory devices in an efficiently manner (paragraph 8).

As in claim 13, Biessener does not expressly disclose the claim's aspect of different ways of memory addressing. However, However, Jameson discloses a translation unit adapted to translate between one or more different ways of memory addressing (paragraph 38, translating between SRAM addressing way and NAND addressing way). It would have been obvious to one of ordinary skill in the art at the time of invention to include a device with interface conversion as suggested by Jameson in Biessener's system and thereby data can be transferred with an interface different than that of memory devices in an efficiently manner (paragraph 8).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Doan whose telephone number is 571-272-4171. The examiner can normally be reached on M-F 8:00 AM 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Duc T. Doan/

Duc T. Doan

Patent Examiner, Art Unit 2188

/Hyung S. Sough/

Supervisory Patent Examiner, Art Unit 2188

10/06/08